

## **ABSTRACT**

A method for the separation of benzoporphyrin derivative mono and diacid (BPD-MA, BPD-DA) enantiomers by Laser-Induced Fluorescence Capillary Electrophoresis has been developed. The limits of detection are  $2.06 \times 10^{-6}$  M, and the relative standard deviation for the separation was 2.90% to 4.64%. The BPD enantiomers can be quantitatively determined in the range of  $10^{-2}$  to  $10^{-5}$  mg mL<sup>-1</sup>. In comparison with HPLC, CE has better resolution and efficiency. This separation method was successfully applied to the BPD enantiomers obtained from a matrix of bovine serum and from liposomally formulated material as well as from studies with rat, dog and human microsomes.